TI-30253 9/6/00

ABSTRACT

1 The immediate grant bus arbiter of this invention is a 2 part in the implementation of a multiple transaction bus 3 system. A bus bridge provides a means to connect two separate busses together and secure data integrity. The bus bridge is 4 defined with clear master-slave protocol. 5 The bus bridge normally involves the use of two arbiters. The arbiter on the 6 primary bus needs to operate differently from the arbiter on 7 the secondary bus due to real system time constraints. 8 invention defines a bus arbiter that allows for a dominant bus 9 master to receive an immediate grant of control on the bus. 10 This immediate grant bus arbiter never relinquishes the bus if 11 another lower priority master makes a bus request. This makes 12 predictable real time data transfer possible. 13